Fiscal Year 2011 Energy and Water Appropriations

Intended Recipient	Project Name	Location	Purpose	Amount Requested by Organization	Justification (provided by intended recipient)
Cedar Valley TechWorks	Industrial Waste Heat Recovery and Renewable Energy Plan	Waterloo	to develop an innovative strategy for using multiple energy sources and to study the use of solar, wind, fuel cell, and bioenergy feedstock technologies in one power system.	$2.25 million	The federal government has identified renewable energy and energy efficiency practices as top priorities and this project exemplifies both of those areas clearly using both public and private partnerships to execute.
Iowa Biotechnology Association	Corn Stover for Petroleum Replacement	Des Moines	to evaluate corn stover biomass to create renewable and sustainable sources of energy and materials currently obtained from petroleum as a suitable feedstock for use.	$1.8 million	This project advances new technology for the conversion of corn stover to low carbon, sustainable petroleum replacement products. This project serves national interests by reducing the use of foreign oil, creating jobs and helping the environment. Federal funds are needed to help remove technology risk in the scale up to commercial applications.
Iowa Central Community College	Renewable Fuels Testing Lab	Fort Dodge	to continue training and testing renewable fuels.	$500,000	By operating an independent fuel testing laboratory in the middle of the United States Renewable Fuel production region, this program can provide timely and cost-effective testing results, leveraging the biofuels technology degree program, diesel technology and auto technology programs, while allowing students hands on practical training.
Iowa Department of Economic Development	North American Gearbox Test Facility and Wind Energy Research Center	Des Moines	to design, develop, and construct a certified facility to conduct research and testing of large wind turbine drivetrain systems	$3 million	The development and operation of the Wind Energy National Test Institute will identify and remove significant barriers in the road of our national goal to provide 20% of domestic wind energy production by 2030. It will enable novel research and development through collaborative efforts with NREL, academic partners, industry, and wind energy manufacturers to accelerate innovation and build a roadmap for further innovation.
Iowa State University	Wind Advances	Ames	for the development of a regional wind testing facility focused on small wind turbine testing, support of regional manufacturers, and advancement of winder energy technology for both large and small wind turbines.	$3 million	Wind energy is the most economic zero-carbon resource that can be built today. As energy prices continue to rise and environmental stewardship concerns increase, the use of renewable energy sources, particularly wind, becomes of increasing interest to the public, particularly those that live in good wind resource areas.

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Lewis and Clark Rural Water System	Lewis and Clark Rural Water System	Northeast Iowa, South Dakota and Minnesota	to provide safe, reliable drinking water to over 300,000 people in South Dakota, Minnesota, and Iowa	$35 million	The Lewis & Clark Regional Water System – a Congressionally authorized project – utilizes a regional approach to address common problems with water resources in a more effective and cost-efficient way than each entity could do alone.
Municipal Electric Utility of the City of Cedar Falls	Biomass Energy Generation Project	Cedar Falls	to support research of biomass-based renewable electric generation and develop a supply chain of specialty crops and field waste for use as fuel in electric generation.	$2.5 million	Combustion of biofuels for electric generation is an alternative to the combustion of fossil fuels. Biofuels are carbon neutral and are locally produced from sustainable resources rather than extracted from limited fossil fuel reserves in distant locations. Existing federal agricultural programs can be used to encourage agricultural participation in production of the fuel.
University of Iowa	Burlington Atomic Energy Commission Plant and Ames Lab Former Workers Medical Surveillance Program	Iowa City	to fund medical research to detect conditions that are amenable to early intervention, ameliorate certain conditions, and provide primary prevention	$1 million	The workers who developed and assembled nuclear weapons are viewed by many as "Cold War Warriors" who all too often paid the ultimate sacrifice in defense of their country. This project serves to educate these former workers, offer them medical screenings to detect early stages of cancers and/or lung disease and assist said workers or their surviving families with a related federal compensation claims program. In the future, society may benefit from this program by learning more about the relationship between workplace hazards and human health at DOE sites and in other settings.
University of Iowa	Iowa Center for Excellence in Wind Turbine Reliability and Manufacturing	Iowa City	to assess and improve turbine reliability and overall performance.	$1.5 million	This request is part of a larger initiative to establish a partnership with the National Wind Resource Center at Texas Tech University. Combined, Texas and Iowa contribute over 30% of the total wind generation in the U.S., and are leaders in attracting wind energy manufacturers. The partnership between the two universities will provide critical research needed to advance wind energy as an inexpensive and reliable renewable energy source.
University of Northern Iowa	Center for Biobased Binders and Pollution Reduction Technology	Cedar Falls	to develop bio-based polymers for use in foundry binders, and reduce our dependence on foreign oil by replacing it with renewable agricultural resources.	$500,000	Advanced bio-based products have shown the ability to cut industrial gas emissions in half. This alone would save U.S. based industries hundreds of millions of dollars in emission capture equipment while cleaning the environment and making them more competitive in the global economy.

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University of Northern Iowa	School Sustainability and Energy Education Development	Cedar Falls	to assist schools in reducing their energy use through workshops and educational initiatives.	$745,210	Schools must make more efficient use of limited resources. This project assists schools in lowering their energy use, reducing their waste disposal costs, and decreasing grounds maintenance expenses. It also promotes the use of local foods in school lunch programs.
WasteNot	Converting Agricultural Waste to Energy with Plasma Melting Technology Research and Development	Cedar Rapids	to support the research and development of converting agricultural waste to energy with plasma melting technology	$2 million	Landfills do not provide a long term solution for managing waste disposal. wastenotIOWA's research and development project using plasma melting technology to convert agricultural waste to energy intends to provide a sustainable alternative and address growing environmental and energy challenges.
Western Iowa Tech Community College	Sustainable Energy Institute	Sioux City	for curriculum and to advance training opportunities for students in wind energy technologies.	$2.35 million	This project is aligned with federal policies to reach 20% of the nation's electricity supplied by wind power by 2030. To decrease the national dependency to use fossil fuels and gas as a source of energy to produce the nation's electricity supply and improve the environment.

U.S. Army Corps of Engineers

As a federal government agency, the U.S. Army Corps of Engineers receives funding for both individual projects and its operating and maintenance expenses. Due to the structure of the Corps, every project the Corps prioritizes for work must be specifically recognized in law by Congress. In order to ensure the Corps can continue work on Iowa projects, Grassley forwards to the Appropriations Committee, on behalf of the Corps of Engineers, those projects for Iowa recognized by the Corps.

U.S. Army Corps of Engineers/Iowa Department of Natural Resources	Chariton River Basin, MO and IA	Chariton River Watershed, MO & Iowa	to initiate reconnaissance study	$100,000	Reduced flood damages, reduced streambank erosion, restored environmental habitat, improved water quality, improved recreation opportunities.
U.S. Army Corps of Engineers/Rathbun Regional Water Association	Chariton River, IA Section 206	Chariton River above Rathbun Lake	to complete planning and design and initiate design of wetland restoration sites within key watershed areas	$300,000	Protects the environment, reduces sediment influx into Rathbun Lake, protects farmland. In reducing sediment, protects water quality at the lake which is a major source of water supply to the region.
U.S. Army Corps of Engineers/Iowa Department of Natural Resources	Rathbun Lake Habitat Restoration (South Fork), Iowa Section 1135	Rathbun Lake	to complete construction of shoreline restoration work on critical habitat to protect natural aquatic and sport fishing spawning areas and prevent shoreline erosion	$200,000	Protects the environment, fisheries, and significant public investment and infrastructure at Rathbun Lake by stopping severe shoreline erosion. In reducing sediment, protects water quality and the lake which is a major source of water supply to the region.

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U.S. Army Corps of Engineers/Rathbun Regional Water Association	Wood Duck Marsh, Iowa Section 1135	Appanoose County	to initiate and complete planning phase	$100,000	Protects the environment and restores emergent wetlands and valuable timber habitat. Reduces sediment influx into Rathbun Lake.
U.S. Army Corps of Engineers/Hamburg, Shenandoah, Fremont Co., Montgomery Co., and Page Co.	Lower Nishnabotna River Basin, Iowa, Planning Assistance to States and Tribes	Nishnabotna River Basin from Red Oak, Iowa and Randolf, Iowa to Nishnabotna River mouth	to analyze flood risk management alternative and develop a scope of work to implement a Lower Nishnabotna River Basin Management Plan to manage flood risk	$100,000	The study will provide local authorities with the information and tools necessary to more effectively manage the Nishnabotna River Basin flood risk. More effective flood risk management will help lower flood damages.
U.S. Army Corps of Engineers/Iowa Department of Natural Resources	Blackhawk Bottoms, Pool 19, Iowa	Southeastern Iowa, Des Moines County near the confluence of the Skunk and Mississippi Rivers	to negotiate project agreement, initiate and fully fund construction	$754,000	This project would assist in the creation of wildlife habitat. The habitat would be complimented by seasonal flooding to attract waterfowl during migration. The flooded wetlands would provide a food source for a multitude of species.
U.S. Army Corps of Engineers/Cedar Rapids, Iowa	Cedar River, Cedar Rapids, Iowa	Cedar Rapids	to complete feasibility study and begin PED	$6.7 million ($700,000 to complete feasibility study and $6 million to begin PED.)	Following the devastating floods of 2008 in Cedar Rapids, the need for a comprehensive flood risk management plan was determined to be critical. The City of Cedar Rapids suffered billions in losses from the flood event and the study will help provide a mitigation strategy which can be implemented to help prevent future damage and losses.
U.S. Army Corps of Engineers/Waverly, Iowa	Cedar River, City of Waverly, Iowa	Waverly	to initiate feasibility report	$100,000	Protect Southeast Waverly's public infrastructure from future flood damages.
U.S. Army Corps of Engineers/Cedar County, Iowa	Cedar River, 290th Street Bridge, Cedar County, Iowa	Cedar County	to complete initial assessment	$250,000	Protection of public utilities adjacent to the stream and roadway. Threats to life safety and public health, and damages due to the loss of public infrastructure would be avoided by this project. The project would also sustain construction jobs for the duration of the project.
U.S. Army Corps of Engineers/Iowa City, Iowa	Clear Creek and Iowa River, Johnson County, Iowa	Iowa City, Coralville, and Johnson County	to negotiate project partnership agreement with the sponsor	$50,000	Restoring and enhancing this area will restore the historic infiltration that occurred in the native landscape thus improving water quality, reducing runoff, and restoring groundwater hydrology to adjacent wetland communities.

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U.S. Army Corps of Engineers, Coralville Lake and Dam	Coralville Lake and Dam, Iowa Operations and Maintenance	Johnson County	to restore basic service level and address additional needs at the Corps facility	$6.069 million	This project provides flood control protection for Iowa City and the mainstream of the Mississippi River. The project provided cumulative damages prevented since its inception in 1958 in excess of $139,295,000. The project has provided recreational opportunities for over ¾ million visitors who spend over 8.5 million hours at recreation areas.
U.S. Army Corps of Engineers/Des Moines, Fort Dodge, and Marion County, Iowa	Des Moines Recreational River and Greenbelt, Iowa	Des Moines, Ft. Dodge, and Marion County	to continue development of high priority Greenbelt priorities	$13.5 million	This project was successful in preventing flooding in downtown Des Moines during the flood event of 2008 where the flood walls had been increased by a foot or more, which prevented damage and loss to downtown property and infrastructure. Additionally, the project helps revitalize riverfront area along the Des Moines River, which provides increased opportunities for economic development.
U.S. Army Corps of Engineers/Davenport, Iowa	Duck Creek, Davenport, Iowa	Davenport	to negotiate project partnership agreement with sponsor and initiate and fully fund construction	$445,000	Expand and improve existing wetlands, improve water quality through increased nutrient and sediment removal, and improved wildlife habitat, restoration of native prairie plants to thee site, reduce turbidity, and increase oxygenation of the water.
U.S. Army Corps of Engineers, Rock Island District	Floodplain Management Services (FPMS), Iowa	multiple watersheds throughout Iowa	to initiate hydrologic enforcement of Iowa LiDAR data, accomplish post-2008 flood event updating of the regulated frequency curve and pool elevation frequency estimates for the Des Moines River Basin, and initiate evaluation of flooding scenarios and emergency planning assistance for urban levee system	$240,000	The Rock Island District's FPMS program has been very successful in assisting other agencies (Federal and State), counties, local communities, and individuals with various aspects of floodplain management and flood risk reduction. The program develops or interprets site-specific data on obstructions to flood flows; flood formation and timing; flood depths or stages; floodwater velocities; and the extent, duration, and frequency of flooding. For more complex floodplain issues, the program provides assistance in the form of Special Studies for all aspects of floodplain management and flood risk reduction planning. Some of the most common types of Special Studies include: floodplain delineation/flood hazard evaluation studies; dam break analysis and dam removal studies; flood warning/preparedness studies; regulatory floodway studies; comprehensive floodplain management studies; urbanization impact studies; sedimentation effects studies; and stormwater management studies.

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U.S. Army Corps of Engineers/Des Moines	Greenways Comprehensive Plan, Des Moines, Iowa, Planning Assistance to States and Tribes (PAS)	Des Moines	to meet initial federal cost-share funding increment	$100,000	The Planning Assistance to States and Tribes Program provides States, counties, local communities, and Indian tribes with planning level assistance in addressing a water resources issues and planning needs. The studies generally involve collection of data, data analysis, and development of water resources management plans and other tools. The program provides the sponsor with planning level detail and information needed to support water resources management decision making by the sponsor.
U.S. Army Corps of Engineers/Humboldt, Iowa	Humboldt, Iowa	Humboldt	to continue feasibility phase	$175,000	The benefit to cost ratio for the entire project is not quantifiable because monetary benefits are not identified for ecosystem restoration. However, there are intangible benefits to the environment as well as improvement to the quality of life by restoring aquatic habitat. Jobs will be created and the economy improved in areas where projects are constructed.
U.S. Army Corps of Engineers/Cedar Rapids. Iowa	Indian and Dry Run Creeks, Cedar Rapids, Iowa	Linn County	to complete feasibility study	$135,000	Development in the watershed will result in more frequent and more severe flooding if controls are not implemented. Threat to life, safety and public health, and damages due to loss of public infrastructure would be avoided.
U.S. Army Corps of Engineers, Rock Island District, Clock Tower Building	Inspection of Completed Works, Iowa	Various Cities and Counties in Iowa	to inspect completed works of the Rock Island District in Iowa	$952,000	The Corps' Levee Safety Program emphasizes the role of levees in flood damage reduction to avoid loss of life and property damages. The program will help achieve three goals: 1) reduce risk and increase public safety through an informed public, empowered to take responsibility for its safety; 2) develop a clear national levee safety policy and standards; and 3) maintain a sustainable flood damage reduction system that meets public safety needs.
U.S. Army Corps of Engineers/Iowa City, Iowa	Iowa River, Iowa City, Iowa	Iowa City	to initiate feasibility study	$100,000	Protect roads, utilities, bridges, sewage treatment facilities, potable water wells, and other public infrastructure from future flood damages.

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U.S. Army Corps of Engineers/Middle Amana, Iowa	Middle Amana, Iowa, Planning Assistance to States and Tribes	Middle Amana	to meet initial federal cost-share funding increment for the Middle Amana Floodplain Analysis and Flood Risk Reduction Alternatives Evaluation Study	$60,000	The Planning Assistance to States and Tribes Program provides States, counties, local communities, and Indian tribes with planning level assistance in addressing a water resources issues and planning needs. The studies generally involve collection of data, data analysis, and development of water resources management plans and other tools. The program provides the sponsor with planning level detail and information needed to support water resources management decision making by the sponsor.
U.S. Army Corps of Engineers/Perry, Iowa	North Raccoon River, Perry, Iowa	Perry	to complete construction	$241,000	Threats to life safety and public health, and damages due to the loss of public infrastructure would be avoided. This project would also sustain construction jobs for the duration of the project.
U.S. Army Corps of Engineers, Rock Island District, Red Rock Lake and Dame, Iowa	Red Rock Lake and Dam, IA Operations and Maintenance	Knoxville	to restore basic service level, prepare Dam Safety Interim Risk Reduction Plan; repair sewage utility and connect with municipal systems; repair roads and parking areas; safety hazard – dock lanes for boat ramps; and repair/replace main dam tainter gate machinery	$16.088 million	This project provides flood control protection for numerous communities on the Des Moines River and mainstem of the Mississippi River. Cumulative damages prevented since the projects inception in 1969 is more than $550,483,100. The project includes 50,300 acres of fee title lands and there are 11 recreation sites. FY09 recreation fee receipts and lease revenues were $419,222. Regional economic impact of 2009 project visitation is $74,100,000.
U.S. Army Corps of Engineers, Rock Island District, Saylorville Lake and Dam, Iowa	Saylorville Lake and Dam, IA Operations and Maintenance	Johnston	to restore basic service level, prepare Dam Safety Interim Risk Reduction Plan, Repair Diversion Dam Control Structure-Design, and repair and replace infrastructure at this Corps facility	$6.458 million	This project provides flood control protection for numerous communities on the Des Moines River and the mainstem of the Mississippi River. Cumulative damages prevented since the project's inception in 1975 is more than $181,932,300. The project includes 25,515 acres of fee title lands and there are 13 recreation area sites. FY09 recreation fee receipts and lease revenues were %596,715. Regional economic impact of 2009 project visitation is $110,000,000.

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U.S. Army Corps of Engineers, Multiple States, County Agencies, and Local Governments	Upper Mississippi River Comprehensive Plan, IA, IL, MO, MN, & WI	Multiple States, County Agencies, and Local Governments	to expand investigations into tributary watersheds and critical transportation infrastructure and initiate feasibility studies for reconstruction of existing flood protection systems	$3.5 million	Findings in the Final Report suggest that there are economic, social, and/or environmental benefits in the national interest in reducing flood impacts to critical transportation infrastructure, defining watershed strategies through a collaborative effort, and improving the integrity of existing flood damage reduction systems. Further studying would identify greater flood protection possibilities for critical infrastructure (bridges, approaches, etc) and help determine if there is a federal interest in reconstruction of existing flood protection systems.
U.S. Army Corps of Engineers/Multiple States, County Agencies, Local Governments	Upper Mississippi River – Illinois Waterway System, IL, IA, MN, MO & WI, Navigation and Ecosystem Sustainability Program (NESP)	Multiple States, County Agencies, Local Governments	to complete design of two locks, continue with small scale navigation improvements, and continue ecosystem restoration project	$15 million	The Upper Mississippi River – Navigation and Ecosystem Sustainability Program is an effort focused on providing navigation efficiency improvement and ecological restoration projects for the Upper Mississippi River and Illinois Waterway system. The system is a vital part of our national economy and is significant for certain key exports and the nation's balance of trade. The UMRS ecosystem consists of 2.7 million acres of bottomland forest, islands, backwaters, side channels, and wetlands.
U.S. Army Corps of Engineers/ Whitebreast Watershed Association	Whitebreast Creek Watershed, Iowa, Section 206	South Central Iowa encompassing portions of Clark, Lucas, Warren, and Marion Counties	to negotiate project partnership agreement with sponsor and initiate and fully fund construction	$3.915 million	Restoring wetlands will improve wetland aquatic habitat. Control sedimentation and erosion in Whitebreast Creek. Selected planting and hydrology enhancements will create high quality aquatic habitat. The project was planned for the benefit of native species of mammals, amphibians, fish, birds, and migratory birds consistent with agency management goals.

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